CLAIMS

What is claimed is:

- 1 1. A method, comprising seaming together two or more data streams, each made up of a
- 2 number of packets, received from a content source across one or more computer networks
- 3 using an unreliable media transmission protocol at a proxy disposed between the content
- 4 source and one or more content consumers so as to provide one or more output data streams
- 5 to the one or more content consumers that include fewer missing packets than any individual
- 6 one of the data streams being received at the proxy from the content source.
- 1 2. The method of claim 1 wherein seaming comprises including packets from at least one of
- 2 the data streams received from the content source in the output data streams.
- 1 · 3. The method of claim 1 wherein the transmission protocol comprises real-time
- 2 transmission protocol (RTP).
- 1 4. The method of claim 1 wherein at least one of the content consumers comprises a plug-in
- 2 for a Web browser.
- 1 5. A method, comprising opening one or more additional connections between a content
- 2 consumer and a content source in response to an indication that data loss has occurred over
- 3 one or more existing connections between the content source and the content consumer.
- 6. The method of claim 5 wherein the one or more additional connections are opened
- 2 between the content source and a proxy disposed between the content source and the content
- 3 consumer.

- 7. The method of claim 6 wherein the proxy seams together data streams received from the
- 2 content source across the additional connections before passing a resultant seamed stream to
- 3 a subsequent content consumer.
- 1 8. The method of claim 7 wherein the proxy constructs the seamed stream by filling in
- 2 information gaps in any of the data streams received from the content source with content
- 3 derived from others of the data streams received from the content source.
- 9. The method of claim 8 wherein the content is derived from others of the data streams on
- 2 the basis of contents of packets from each of the data streams received from the content
- 3 source.
- 1 10. A method, comprising seaming together a recording of streaming content downloaded
- 2 over one or more occasions from a content source in response to an indication that data loss
- 3 has occurred during playbacks from the content source.
- 1 11. The method of claim 10 wherein the downloads occur over multiple connections between
- 2 the content source and a proxy disposed between the content source and one or more content
- 3 consumers.
- 1 12. The method of claim 11 wherein the proxy seams together data streams received from
- 2 the content source across the multiple connections before storing a resultant seamed stream
- 3 to a computer readable medium.
- 1 13. The method of claim 12 wherein the proxy constructs the seamed stream by filling in
- 2 information gaps in any of the data streams received from the content source with content
- derived from others of the data streams received from the content source.

- 1 14. The method of claim 13 wherein the information gaps are filled in with reference to
- 2 timestamps and/or packets sequence numbers of packets of the data streams.
- 1 15. The method of claim 14 wherein the timestamps and/or packet sequences numbers are
- 2 normalized before the information gaps are filled in.
- 1 16. The method of claim 10 wherein at least one of the occasions corresponds to a time
- 2 other than during or due to a user request for the streaming content.
- 1 17. The method of claim 16 wherein the at least one of the occasions corresponds to a
- 2 prefetching operation.
- 1 18. The method of claim 16 wherein the at least one of the occasions corresponds to time of
- 2 reduced network congestion.
- 1 19. A proxy configured to seam together two or more data streams, each made up of a
- 2 number of packets, received from a content source across one or more computer networks so
- 3 as to provide one or more output data streams to one or more content consumers that include
- 4 fewer missing packets than any individual one of the data streams being received from the
- 5 content source.
- 1 20. The proxy of claim 19 wherein seaming comprises including packets from at least one of
- 2 the data streams received from the content source in the output data streams.